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L1	2120	(load$5 near5 (module$1 component$1) near6 (kernel OS (operating adj system)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/24 14:50
L2	474	1 and ((replac$3 updat$3) near4 (module$1 component$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/24 14:51
L3	36	2 and (reference adj2 count) and manager$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/24 14:53
L4	38	2 and (reference adj2 count)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/24 14:53
S1	2432	((load$3 un$1load$3) near5 (module$1 component$1 extension$1 plug$1in$1) with (kernel OS (operating adj system)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/24 14:49
S2	90	S1 and (reference$1 near3 count)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/22 14:50
S3	18	S2 and 719/310,311-320,328-332.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/22 14:37
S4	1	S2 and 717/168-170,174-175.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/22 14:39
S5	48	S2 and (replac$3 near6 (module$1 component$1 extension$1 plug$1in$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/22 14:37

S6	10	S5 and (reference$1 near4 count near4 zero)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/22 14:38
S7	602	S1 and ((updat$3 replac$3) near5 (module$1 component$1 extension$1 plug$1in$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/22 14:44
S8	56	S7 and (reference$1 near5 count$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/22 14:45
S9	865	((updat$3 replac$3) near5 (module$1 component$1 extension$1 plug$1in$1) with (kernel OS (operating adj system)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/22 14:48
S10	13	S9 and (reference$1 near3 count)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/22 14:50

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1 Sharing and protection in a single-address-space operating system   ■
◆ Jeffrey S. Chase, Henry M. Levy, Michael J. Feeley, Edward D. Lazowska
November 1994 **ACM Transactions on Computer Systems (TOCS)**, Volume 12 Issue 4
Publisher: ACM Press

Full text available: 🔁 pdf(2.87 MB)   Additional Information: full citation, abstract, references, citings, index terms

> This article explores memory sharing and protection support in Opal, a single-address-space operating system designed for wide-address (64-bit) architectures. Opal threads execute within protection domains in a single shared virtual address space. Sharing is simplified, because addresses are context independent. There is no loss of protection, because addressability and access are independent; the right to access a segment is determined by the protection domain in which a thread executes. T ...

> **Keywords**: 64-bit architectures, capability-based systems, microkernel operating systems, object-oriented database systems, persistent storage, protection, single-address-space operating systems, wide-address architectures

2 A structural view of the Cedar programming environment   ■
◆ Daniel C. Swinehart, Polle T. Zellweger, Richard J. Beach, Robert B. Hagmann
August 1986 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,
            Volume 8 Issue 4
Publisher: ACM Press

Full text available: 🔁 pdf(6.32 MB)   Additional Information: full citation, abstract, references, citings, index terms

> This paper presents an overview of the Cedar programming environment, focusing on its overall structure—that is, the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language, also called Cedar. Its primary purpose is to increase the productivity of programmers whose activities include experimental programming and the development of prototype software systems for a high-performance personal computer. T ...

3 Launching the new era   ■
◆ Kazuhiro Fuchi, Robert Kowalski, Koichi Furukawa, Kazunori Ueda, Ken Kahn, Takashi Chikayama, Evan Tick
March 1993 **Communications of the ACM**, Volume 36 Issue 3

Publisher: ACM Press
Full text available: 📄 pdf(3.45 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>index terms</u>, <u>review</u>

4 <u>File system usage in Windows NT 4.0</u>   ◼
◆ Werner Vogels
December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the
                seventeenth ACM symposium on Operating systems principles SOSP
                '99**, Volume 33 Issue 5
Publisher: ACM Press

Full text available: 📄 pdf(1.75 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index
                                                                                        terms</u>

   We have performed a study of the usage of the Windows NT File System through long-
   term kernel tracing. Our goal was to provide a new data point with respect to the 1985
   and 1991 trace-based File System studies, to investigate the usage details of the
   Windows NT file system architecture, and to study the overall statistical behavior of the
   usage data.In this paper we report on these issues through a detailed comparison with
   the older traces, through details on the operational characteristics and ...

5 <u>MMLite: a highly componentized system architecture</u>   ◼
◆ Johannes Helander, Alessandro Forin
September 1998 **Proceedings of the 8th ACM SIGOPS European workshop on Support
                for composing distributed applications EW 8**
Publisher: ACM Press
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6 <u>Experience Using Multiprocessor Systems—A Status Report</u>   ◼
◆ Anita K. Jones, Peter Schwarz
June 1980 **ACM Computing Surveys (CSUR)**, Volume 12 Issue 2
Publisher: ACM Press
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7 <u>Systems and prototypes: Java support for data-intensive systems: experiences</u>   ◼
◆ <u>building the telegraph dataflow system</u>
   Mehul A. Shah, Michael J. Franklin, Samuel Madden, Joseph M. Hellerstein
   December 2001 **ACM SIGMOD Record**, Volume 30 Issue 4
Publisher: ACM Press
Full text available: 📄 pdf(1.38 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>

   Database system designers have traditionally had trouble with the default services and
   interfaces provided by operating systems. In recent years, developers and enthusiasts
   have increasingly promoted Java as a serious platform for building data-intensive servers.
   Java provides a number of very helpful language features, as well as a full run-time
   environment reminiscent of a traditional operating system. This combination of features
   and community support raises the question of whether Java is be ...

8 <u>The measured performance of personal computer operating systems</u>   ◼
◆ J. Bradley Chen, Yasuhiro Endo, Kee Chan, David Mazières, Antonio Dias, Margo Seltzer,
   Michael D. Smith

February 1996 **ACM Transactions on Computer Systems (TOCS)**, Volume 14 Issue 1
Publisher: ACM Press

Full text available: 📄 pdf(2.38 MB)   Additional Information: full citation, abstract, references, citings, index terms

This article presents a comparative study of the performance of three operating systems that run on the personal computer architecture derived form the IBM-PC. The operating systems, Windows for Workgroups, Windows NT, and NetBSD (a freely available variant of the UNIX operating system), cover a broad range of system functionality and user requirements, from a single-address-space model to full protection with preemptive multitasking. Our measurements are enable by hardware counters in Inte ...

Keywords: Microsoft Windows, operating systems performance measurement, operating systems structure, personal computers

9   Process migration in DEMOS/MP   ▪

Michael L. Powell, Barton P. Miller
October 1983 **ACM SIGOPS Operating Systems Review , Proceedings of the ninth ACM symposium on Operating systems principles SOSP '83**, Volume 17 Issue 5
Publisher: ACM Press

Full text available: 📄 pdf(849.62 KB)   Additional Information: full citation, abstract, references, citings, index terms

Process migration has been added to the DEMOS/MP operating system. A process can be moved during its execution, and continue on another processor, with continuous access to all its resources. Messages are correctly delivered to the process's new location, and message paths are quickly updated to take advantage of the process's new location. No centralized algorithms are necessary to move a process. A number of characteristics of DEMOS/MP allowed process migration to be implemente ...

10   The measured performance of personal computer operating systems   ▪

J. B. Chen, Y. Endo, K. Chan, D. Mazieres, A. Dias, M. Seltzer, M. D. Smith
December 1995 **ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM symposium on Operating systems principles SOSP '95**, Volume 29 Issue 5
Publisher: ACM Press

Full text available: 📄 pdf(1.98 MB)   Additional Information: full citation, references, citings, index terms

11   Programming languages for mobile code   ▪

Tommy Thorn
September 1997 **ACM Computing Surveys (CSUR)**, Volume 29 Issue 3
Publisher: ACM Press

Full text available: 📄 pdf(393.65 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

Sun's announcement of the programming language Java more that anything popularized the notion of mobile code, that is, programs traveling on a heterogeneous network and automatically executing upon arrival at the destination. We describe several classes of mobile code and extract their common characteristics, where security proves to be one of the major concerns. With these characteristics as reference points, we examine six representative languages proposed for mobile code. The conclusion ...

Keywords: Java, Limbo, Objective Caml, Obliq, Safe-Tcl, distribution, formal methods, mobile code, network programming, object orientation, portability, safety, security, telescript

12 The structure of Cedar

Daniel C. Swinehart, Polle T. Zellweger, Robert B. Hagmann

June 1985 **ACM SIGPLAN Notices , ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 85 symposium on Language issues in programming environments**, Volume 20 , 18 Issue 7 , 6

Publisher: ACM Press

Full text available: 📄 pdf(1.79 MB)   Additional Information: full citation, abstract, references, citings, index terms

This paper presents an overview of the Cedar programming environment, focusing primarily on its overall structure: the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language, also called Cedar. We will emphasize the extent to which the Cedar language, with runtime support, has influenced the organization, comprehensibility, and stability of Cedar. Produced in the Computer Science Laboratory (CS ...

13 An extensible probe architecture for network protocol performance measurement

G. Robert Malan, Farnam Jahanian

October 1998 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '98 conference on Applications, technologies, architectures, and protocols for computer communica tion SIGCOMM '98**, Volume 28 Issue 4

Publisher: ACM Press

Full text available: 📄 pdf(1.83 MB)   Additional Information: full citation, abstract, references, citings, index terms

This paper describes the architecture and implementation of Windmill, a passive network protocol performance measurement tool. Windmill enables experimenters to measure a broad range of protocol performance metrics by both reconstructing application-level network protocols and exposing the underlying protocol layers' events. Windmill is split into three functional components: a dynamically compiled Windmill Protocol Filter (WPF), a set of abstract protocol modules, and an extensible experiment e ...

Keywords: online analysis, packet filter, passive measurement, protocol performance

14 The portable common runtime approach to interoperability

M. Weiser, A. Demers, C. Hauser

November 1989 **ACM SIGOPS Operating Systems Review , Proceedings of the twelfth ACM symposium on Operating systems principles SOSP '89**, Volume 23 Issue 5

Publisher: ACM Press

Full text available: 📄 pdf(1.12 MB)   Additional Information: full citation, abstract, references, citings, index terms

Operating system abstractions do not always reach high enough for direct use by a language or applications designer. The gap is filled by language-specific runtime environments, which become more complex for richer languages (CommonLisp needs more than C+ +, which needs more than C). But language-specific environments inhibit integrated multi-lingual programming, and also make porting hard (for instance, because of operating system dependencies). To help solve these problems, we have built ...

15 A case for user-level dynamic page migration

Dimitrios S. Nikolopoulos, Theodore S. Papatheodorou, Constantine D. Polychronopoulos, Jesús Labarta, Eduard Ayguadé

May 2000 **Proceedings of the 14th international conference on Supercomputing ICS '00**
Publisher: ACM Press

Full text available: pdf(1.33 MB)   Additional Information: full citation, abstract, references, citings, index terms

This paper presents user-level dynamic page migration, a runtime technique which transparently enables parallel programs to tune their memory performance on distributed shared memory multiprocessors, with feedback obtained from dynamic monitoring of memory activity. Our technique exploits the iterative nature of parallel programs and information available to the program both at compile time and at runtime in order to improve the accuracy and the timeliness of page migration ...

16 A customizable library to support software synthesis for embedded applications and micro-kernel systems

Carsten Ditze
September 1998 **Proceedings of the 8th ACM SIGOPS European workshop on Support for composing distributed applications EW 8**
Publisher: ACM Press

Full text available: pdf(1.17 MB)   Additional Information: full citation, index terms

17 Firefly: a multiprocessor workstation

Charles P. Thacker, Lawrence C. Stewart
October 1987 **ACM SIGARCH Computer Architecture News , ACM SIGPLAN Notices , ACM SIGOPS Operating Systems Review , Proceedings of the second international conference on Architectual support for programming languages and operating systems ASPLOS-II**, Volume 15 , 22 , 21 Issue 5 , 10 , 4
Publisher: IEEE Computer Society Press, ACM Press

Full text available: pdf(1.10 MB)   Additional Information: full citation, abstract, references, citings, index terms

Firefly is a shared-memory multiprocessor workstation that contains from one to seven MicroVAX 78032 processors, each with a floating point unit and a sixteen kilobyte cache. The caches are coherent, so that all processors see a consistent view of main memory. A system may contain from four to sixteen megabytes of storage. Input-output is done via a standard DEC QBus. Input-output devices are an Ethernet controller, fixed disks, and a monochrome 1024 x 768 display with keyboard and mouse. Option ...

18 JRes: a resource accounting interface for Java

Grzegorz Czajkowski, Thorsten von Eicken
October 1998 **ACM SIGPLAN Notices , Proceedings of the 13th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '98**, Volume 33 Issue 10
Publisher: ACM Press

Full text available: pdf(2.01 MB)   Additional Information: full citation, abstract, references, citings, index terms

With the spread of the Internet the computing model on server systems is undergoing several important changes. Recent research ideas concerning dynamic operating system extensibility are finding their way into the commercial domain, resulting in designs of extensible databases and Web servers. In addition, both ordinary users and service providers must deal with untrusted downloadable executable code of unknown origin and intentions.Across the board, Java has emerged as the language of choice fo ...

Keywords: Java, extensible systems, resource management

19 <u>Lightweight recoverable virtual memory</u>

M. Satyanarayanan, Henry H. Mashburn, Puneet Kumar, David C. Steere, James J. Kistler

December 1993 **ACM SIGOPS Operating Systems Review , Proceedings of the fourteenth ACM symposium on Operating systems principles SOSP '93**, Volume 27 Issue 5

Publisher: ACM Press

Full text available: <u>pdf(1.53 MB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Recoverable virtual memory refers to regions of a virtual address space on which transactional guarantees are offered. This paper describes *RVM*, an efficient, portable, and easily used implementation of recoverable virtual memory for Unix environments. A unique characteristic of RVM is that it allows independent control over the transactional properties of atomicity, permanence, and serializability. This leads to considerable flexibility in the use of RVM, potentially enlarging the ...

20 <u>The file system of an integrated local network</u>

Paul J. Leach, Paul H. Levine, James A. Hamilton, Bernard L. Stumpf

March 1985 **Proceedings of the 1985 ACM thirteenth annual conference on Computer Science CSC '85**

Publisher: ACM Press

Full text available: <u>pdf(1.78 MB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

The distributed file system component of the DOMAIN system is described. The DOMAIN system is an architecture for networks of personal workstations and servers which creates an integrated distributed computing environment. The distinctive features of the file system include: objects addressed by unique identifiers (UIDs); transparent access to objects, regardless of their location in the network; the abstraction of a single level store for accessing all objects; and the layering of a networ ...

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J Mauro

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A Forin

[BOOK] Solaris Internals: Core **Kernel** Architecture - group of 3 »
J Mauro, R McDougall - 2000 - books.google.com
... 536 vnode **Reference Count** 538 ... 12 Figure 1 .2 Core **Kernel** and **Loadable Modules** 13
Figure 1 .3 **Kernel** Threads, Processes, and Lightweight Processes 15 ...
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Dynamic function replacement for streams framework - group of 2 »
MR Krause, Y Ishijima - US Patent 5,815,707, 1998 - Google Patents
... execution path or may **replace** it entirely ... When dynamic **loadable kernel modules** become
generally available, dynamic ... usages without requiring the **module** or driver ...
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Method and system for calling one of a set of routines designed for direct invocation by
programs of ... - group of 3 »
A Kanamori, J Thomason - US Patent 5,734,904, 1998 - Google Patents
... If the decremented **reference count** is equal to zero ... of 16-bit libraries to **update**
their libraries to ... for calling the appropriate **kernel module**, which determines ...
Cited by 9 - Related Articles - Web Search

Apparatus and method for preprocessing computer programs prior to transmission across a
network - group of 2 »
US Patent 5,734,822, 1998 - freepatentsonline.com
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code 307 into **loadable module** 309: (1 ... which is local to the **module**, then in ...
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[DOC] Linux **Kernel** 2.4 Internals - group of 9 »
T Aivazian - 2001 - alkhawarezmi.com
... processes parameters when compiled as a **module** but not ... we are scheduling-in the **kernel**
thread (which ... This structure also includes a **reference count** because it ...
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File system usage in Windows NT 4.0 - group of 25 »
W Vogels - Proceedings of the seventeenth ACM symposium on Operating ..., 1999 - portal.acm.org
... **Kernel** profiling has shown the impact of the tracing ... period the file system trace
module would record ... loading of executables and dynamic **loadable** libraries is ...
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J Helander, A Forin - Proceedings of the 8th ACM SIGOPS European workshop on ..., 1998 - portal.acm.org
... modified one of the existing loader **modules** for their ... by a trusted compiler run inside
the **kernel**. ... equal tunctionality through **loadable** nested virtual machines ...
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J Hartman, L Peterson, A Bavier, P Bigot, P ... - Software Practice and Experience, 2000 - doi.wiley.com
... thread acquires all locks with a positive **reference count**. ... may interact with the

appropriate Scout **module** (in this ... this form, so the initial **kernel** includes a ...
Cited by 9 - Related Articles - Web Search - BL Direct

Method and system for loading libraries into embedded systems - group of 3 »

LE Hagy, GK Harish, JD Heath, C Jagannadhan, DA ... - US Patent 6,363,436, 2002 - Google Patents
... readable files are generally not **loadable** from an ... than the base loader (Micro **Kernel**),
it would ... list ptr ASCII name of **module reference count** segment table ptr ...
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STRUCTURE, PERFORMANCE, AND IMPLEMENTATION OF THE DIRECT ACCESS FILE SYSTEM

R Kisley - 2001 - netserver.cerc.wvu.edu
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